

CITY OF FRESNO FMFCD BASINS
MONTHLY REPORT (AC.FT.)
2011-2012

FMFCD BASINS IN FRESNO	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	YEAR TO DATE
Basin A													0
Basin AB			44	60	20	46	48						218
Basin AC													0
Basin AD			6		12	6							24
Basin AE					2	145	157						304
Basin AF			165	103	117	141	69	12					607
Basin AG													0
Basin AH			284	353	373	432	278	28					1,748
Basin AJ		12	73	28	38	135	65	10					361
Basin AL		14	149	149	135	177	127	69					820
Basin AO	169	200	97	186	142	135	109	165					1,203
Basin AW2		16	103	111	71	111	69	8					489
Basin AZ		16	71	107	137	125	69						525
Basin BE		28	117	77	73	65	28						388
Basin BF		40	44	32	61	26	12						215
Basin BH			147	69	109	73	67	20					485
Basin BM								95					95
Basin BO			44	83	75	115	75	22					414
Basin BQ		4			22	16	32						74
Basin BU			69	32	60	52	60						273
Basin BV			63	24	44	54	20						205
Basin BW			60	22	52	52	36						222
Basin BZ			121	83	125	139	85	2					555
Basin CC				20	58	26							104
Basin CL		16	65	34	85	115	46						361
Basin CM				12	8	58							78
Basin CN			145	79	67	180	173						644
Basin CO2			93	399	524	577	512	20					2,125
Basin CS			117	450	468	446	375	272					2,128
Basin CW			161	52	145	16							374
Basin CX				56	16								72
Basin CY					2								2
Basin CZ			137	73	77	69							356
Basin DD		2	169	186	194	234	101						886
Basin DH													0
Basin EE			206	194	145	149	50						744
Basin EF													0
Basin EG													0

Figure 4-1

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FMFCD BASINS IN FRESNO	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	YEAR TO DATE
Basin EL			75	79	48	46	34						282
Basin EM			541	393	272	214	71	28					1,519
Basin FF			28		24	61	60						173
Basin GG			48	2	40	81	52						223
Basin HH			85	60	61	61	60						327
Basin II1			14	101	119	97	38	20					389
Basin II2			52	44	61	73	20						250
Basin J			38										38
Basin JJ		8	75	40	48	61	16						248
Basin K			34	10	30	30	22						126
Basin KK					42	87	91						220
Basin L				56	24								0
Basin LL		79	73	97	30	79	91						449
Basin MM			147	105	95	117	95						559
Basin N		93	101	89	135	111	85						614
Basin O													0
Basin OO		2	89	61	101	131	119	54					557
Basin P					4	26							30
Basin R		22	52	14	41	50							179
Basin RR1		14	105	163	260	135	171						848
Basin RR2				18	61	38							117
Basin RR3		34	73	85	67	32							291
Basin S			48	12	30	40	52						182
Basin T													0
Basin TT		230	353	159	117	123	119	8					1,109
Basin U			63	26	60	133	65						347
Basin UU2		2	61	60	61	52	20						256
Basin UU3		196	343	331	375	268	300	4					1,817
Basin W													0
Basin Y													0
Basin Z													0
Basin ZZ		2	175	89			48	44					358
Fresno's FMFCD Total	169	990	5,379	5,136	5,602	6,035	4,280	881	0	0	0	0	28,472

Figure 4-1

**CITY OF FRESNO RECHARGE
MONTHLY REPORT (AC.FT.)
2011-2012**

OTHER FRESNO RECHARGE	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	YEAR TO DATE
Leaky Acres	575	899	992	825	916	910	815	1,109					7,041
Woodward Park	58	22	73	65	83	89	65	28					483
Fresno State	20	180	228	313	464	458	353	190					2,206
Copper River Country Club			32	26	6	18	6						88
Big Dry Detention	61	60	56	60	44	56	54	52					443
Chestnut Ave. Basin	365	224	212	232	222	129	114	99					1,597
North Central Basin	389	329	270	222	339	177	180	173					2,079
Kearney Basin	101	36	144	75	73	111	109	18					667
Running Horse													0
Big Dry Creek West of Winery Ave.	332	378	433	425	451	461	447	461					3,388
Delivery System Recharge Fresno													0
Copper River Country Club total is the amount exceeding the Phillips Ditch entitlement of 77 ac ft per month (during FID's irrigation season).													
Basin BF Water comes from Chestnut Ave. Basin													
KRCD'S Peaking Plant	0	0	0	0	0	0	15	0	0	0	0	0	15
Fresno's Total Recharge	2,070	3,118	7,819	7,379	8,200	8,444	6,423	3,011	0	0	0	0	46,464
Fresno's SWTP	1,362	1,986	2,246	2,228	2,528	2,582	2,467	2,310	0	0	0	0	17,709
Fresno's Total Usage	3,432	5,104	10,065	9,607	10,728	11,026	8,890	5,321	0	0	0	0	64,158

**CITY OF CLOVIS FMFCD BASINS
MONTHLY REPORT (AC.FT.)
2011-2012**

FMFCD BASINS IN CLOVIS	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	YEAR TO DATE
Basin 1-E		12	79	18	42	50							201
Basin 1-G						60							60
Basin 2-D		10	63	30	56	58							217
Basin 3-A													0
Basin 3-D		12	26	28	42	67							175
Basin 3-F		14	48	26	40	24							152
Basin 4-E		4	22	4	12	18							60
Basin 5-F		12	30		46	16							104
Basin 5-B/5-C													0
Basin 6-D				26	32	22							80
Basin 7-C		8	28	16	38	28							118
Basin 7-D			67	87	109	97							360
Clovis's FMFCD Total	0	72	363	235	417	440	0	0	0	0	0	0	1,527

OTHER CLOVIS RECHARGE

Clovis Marion Basins	181	233	287	287	264	243	232	0					
Big Dry Creek East of Winery Ave.	332	378	433	425	451	461	447	461					
Delivery System Recharge Clovis													
Clovis's Reagan Center		9	29	28	38	34	28	11					
Clovis's Total Recharge	513	683	1,083	947	1,132	1,144	679	472	0	0	0	0	6,653
Clovis's SWTP	423	877	977	919	1,062	1,074	1,048	957					7,337
Clovis's Total Usage	936	1,560	2,060	1,866	2,194	2,218	1,727	1,429	0	0	0	0	13,990
Fresno/Clovis FMFCD Recharge Total	169	1,062	5,742	5,371	6,019	6,475	4,280	881	0	0	0	0	29,999
Fresno/Clovis Combined Total Recharge	2,583	3,801	8,902	8,326	9,332	9,588	7,102	3,483	0	0	0	0	53,117
Fresno/Clovis Combined Water Usage	4,368	6,664	12,125	11,473	12,922	13,244	10,617	6,750	0	0	0	0	78,163

Figure 4-1

SEMI-MONTHLY RECHARGE BASIN SUMMARY

Inspected June 28 - July 2, 2012

Basin	Location	June 2012					
		Date Authorized	Maximum June Authorized Recharge Level	Maximum July Authorized Recharge Level	Observed Water Elevation	Intertie Position	Comments
A	Florence Avenue west of Chestnut Avenue						Off recharge to dewater and maintain upstream basin.
D	Forkner Avenue & Barstow Avenue	June 6, 2012	15' BRB	15' BRB	15' BRB	Closed	**** FMFCD to control recharge valve from Basin "J". ****Do not exceed 15' BRB to prevent water from spilling to upper floor.
J	Bullard Avenue and Forkner Avenue	June 6, 2012	3' BRB	3' BRB	4' BRB	Open	
K	Santa Fe Avenue north of Shaw Avenue	May 1, 2012	3' BRB	3' BRB	4' 3" BRB	Open	Please increase water delivery.
L	San Jose Avenue east of Blackstone Avenue						Off recharge to maintain basin.
N	Escalon Avenue west of Fresno Street	March 28, 2012	3' BRB	3' BRB	3' 5" BRB	Open	
O	First Street south of Bullard Avenue						Basin elevation at maximum recharge elevation due to nuisance flow.
P	Bullard Avenue and Cedar Avenue	May 1, 2012					Off recharge to repair sewer relief valve. ****Cannot recharge Basin "P" until Basin "CM" is 7.5' BRB.
R	Shepherd Avenue and Chestnut Avenue						Off recharge for basin maintenance.
S	Ashlan Avenue east of Peach Avenue	May 1, 2012	4' BRB	4' BRB	4' 1" BRB	Closed	Recharge valve closed for canal weed maintenance. ****Do not recharge above 4' BRB due to trees in basin.
T	Airways Avenue and Leyte Avenue						
U	Dakota Avenue and Chestnut Avenue	May 1, 2012	4' BRB	4' BRB	4' 4" BRB	Closed	Recharge valve closed for canal weed maintenance. ****Do recharge above 4' BRB due to habitat control.
W	Minnewawa Avenue south of Olive Avenue	May 9, 2012	3' BRB	3' BRB	4' 9" BRB	Open	Please increase water delivery.
X	Willow Avenue and Belmont Avenue	May 9, 2012	3' BRB	3' BRB	3' 3" BRB	Open	****Cannot recharge Basin "X" until Basin "W" is 7.5' BRB. FMFCD to control recharge valve from Basin "W".
Y	Adler Avenue north of Kings Canyon Road	May 1, 2012	16' BRB	16' BRB	15' 6" BRB	Closed	Please keep recharge water terminated until basin elevation drops below maximum authorized level. ****Do not exceed 16' BRB to prevent water from spilling to upper floor.
Z	Kings Canyon Road and Maple Avenue (Fairgrounds)						Off recharge for basin maintenance. ****Do not exceed 12' BRB to prevent water from spilling to upper floor.
CC	Floradora Avenue west of Clark Street	June 12, 2012	11' BRB	8' BRB	13' BRB	Open	Please increase water delivery. Recharge elevation limited to 8' BRB due to construction of storm drain. ****Do not recharge before June due to limited basin capacity.
DD2	Palm Avenue and Dakota Avenue	May 1, 2012	4' BRB	3' BRB	5' 6" BRB	Open	Please increase water delivery.
EE	McKinley Avenue west of West Avenue	May 1, 2012	5' BRB	3' BRB	4' 11" BRB	Open	
FF	West Avenue south of Kearney Blvd.	May 17, 2012	14' BRB	14' BRB	14' 9" BRB	Closed	****Do not exceed 14' BRB to prevent spilling water to the floor on east side of West Avenue.
GG	Florence Avenue east of Cedar Avenue	May 1, 2012	9' BRB	9' BRB	10' BRB	Closed	Recharge elevation limited to 9' BRB due to construction of storm drain.
HH	Maple Avenue & Annadale Avenue	June 21, 2012	3' BRB	3' BRB	4' BRB	Open	

* BRB: Below Red Band ** BCL: Below Chalk Line *** ACL: Above Chalk Line ****Note for future reference

J:\Grants\DWR\Local Groundwater Assistance Program\FY2011-2012\Figure 4-2 Semi-Monthly Report.xlsx

Figure 4-2

SEMI-MONTHLY RECHARGE BASIN SUMMARY

Inspected June 28 - July 2, 2012

Basin	Location	June 2012					
		Date Authorized	Maximum June Authorized Recharge Level	Maximum July Authorized Recharge Level	Observed Water Elevation	Intertie Position	Comments
II1	Church Avenue and Elm Avenue						Off recharge to expand basin. ****Cannot recharge before May due to limited basin capacity. Do not exceed 8' BRB to prevent water from spilling to upper floor.
II2	Orange Avenue and Belgravia Avenue	May 1, 2012	4' BRB	3' BRB	4' 3" BRB	Open	
JJ	Tenth Street south of McKinley Avenue	May 1, 2012	3' BRB	3' BRB	3' 1" BRB	Open	
KK	Elm Avenue south of Jensen Avenue	May 1, 2012	3' BRB	3' BRB	6' BRB	Open	Maximum recharge elevation not achieved due to canal capacity limitations during current agricultural water delivery.
LL	Annadale Avenue and Cherry Avenue	March 28, 2012	7' BRB	7' BRB	8' 9" BRB	Open	Please increase water delivery. Recharge elevation limited to 7' BRB due to construction of storm drain.
MM	Ashlan Avenue west of Hughes Avenue	May 29, 2012	3' BRB	3' BRB	2' 7" BRB	Open	Please terminate recharge delivery until basin drops below authorized elevation.
OO	West Avenue and Florence Avenue	May 21, 2012	3' BRB	3' BRB	7' BRB	Open	Maximum recharge elevation not achieved due to canal capacity limitations during current agricultural water delivery.
RR1	Nielson Avenue and Freeway 99	May 1, 2012	6' BRB	6' BRB	8' BRB	Open	Please increase water delivery. ****Do not recharge above 6' BRB due to trees in basin.
RR2	Belmont Avenue and Thorne Avenue						Off recharge to maintain basin. ****Cannot recharge until June and do not recharge above 5' BRB in July and August due to limited capacity.
RR3	Whitesbridge Avenue and West Avenue	May 1, 2012	5' BRB	5' BRB	6' 7" BRB	open	Please increase water delivery. ****Do not to exceed 5' BRB due to Chandler Airport inlets and trees in basin.
TT1	West Avenue south of Church Avenue	March 28, 2012	3' BRB	3' BRB	10' BRB	Open	Maximum recharge elevation not achieved due to canal capacity limitations during current agricultural water delivery.
UU2	Freeway 99 & Olive Avenue	April 5, 2012	10' BRB	10' BRB	15' BRB	Open	Please increase water delivery. ****Can no longer discharge into Cole Ditch because line is severed south of Belmont west of Hughes.
UU3	Belmont Avenue and Marks Avenue	May 23, 2012	7' BRB	7' BRB	8' 1" BRB	Open	Please increase water delivery. Recharge elevation limited to 7' BRB due to construction of storm drain.
XX	McKinley Avenue and Hughes Avenue	As Needed For Reclaimed Irr. System					Basin "EE" authorized level is below the recharge valve to Basin "XX". ****FMFCD to control recharge valve from Basin EE and do not exceed 15' BRB to prevent water from spilling to upper floor.
ZZ	Crystal Avenue south of Whitesbridge Avenue						Off recharge for construction of outfall structure.
AB	Palo Alto Avenue West of Marks Avenue	May 1, 2012	3' BRB	3' BRB	3' 10" BRB	Closed	
AC	Escalon north of Bullard						Basin is now a recreational facility and recharged primarily for reclaimed irrigation water .
AD	Valentine Avenue and Escalon Avenue	June 6, 2012	3' BRB	3' BRB	3' 3" BRB	Open	
AE	Barstow Avenue west of Valentine Avenue	May 1, 2012	3' BRB	3' BRB	3' BRB	Open	
AF	Shaw Avenue east of Valentine Avenue	May 1, 2012	3' BRB	3' BRB	3' 3" BRB	Open	
AG	Valentine Avenue south of Ashlan Avenue	May 29, 2012	3' BRB	3' BRB	3' BRB	Open	

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SEMI-MONTHLY RECHARGE BASIN SUMMARY

Inspected June 28 - July 2, 2012

Basin	Location	June 2012					
		Date Authorized	Maximum June Authorized Recharge Level	Maximum July Authorized Recharge Level	Observed Water Elevation	Intertie Position	Comments
AH2	Cornelia and Gettysburg Avenue Alignment	May 1, 2012	3' BRB	3' BRB	3' BRB	Open	
AJ	Ashlan Avenue west of Cornelia Avenue	May 1, 2012	3' BRB	3' BRB	4' BRB	Open	Please increase water delivery to raise basin elevation to increase delivery to Basin "AJ".
AK	Dakota Avenue and Polk Avenue	May 1, 2012	3' BRB	3' BRB	8' 6" BRB	Open	Basin "AJ" to low to maximize water delivery. ****Basin "AJ" must be 4.5' BRB to recharge Basin "AK". FMFCD to control recharge valve from Basin "AJ".
AL	Brawley Avenue and Clinton Avenue	May 1, 2012	3' BRB	3' BRB	11' BRB	Open	Maximum recharge elevation not achieved due to canal capacity limitations during current agricultural water delivery.
AO	Blythe Avenue and Belmont Avenue	March 28, 2012	3' BRB	3' BRB	6' 2" BRB	Open	Please increase water delivery. ****Recharge level remains at 3' BRB due to minimum storm drain lines are connected to the basin.
AW2	North Avenue east of Cherry Avenue	May 1, 2012	3' BRB	3' BRB	6' BRB	Open	Please increase water delivery.
AZ	Muscat Avenue and Chestnut Avenue	May 1, 2012	3' BRB	3' BRB	4' BRB	Open	
BE	Helm Avenue north of Church Avenue	March 28, 2012	3' BRB	3' BRB	3' 10" BRB	Open	
BF	Chestnut Avenue south of Church Avenue	March 28, 2012	3' BRB	3' BRB	3' 3" BRB	Open	
BH	Church Avenue east of Clovis Avenue	April 5, 2012	3' BRB	3' BRB	3' 6" BRB	Open	
BM	Fowler Avenue and California Avenue	March 28, 2012	3' BRB	3' BRB	7' 3" BRB	Closed	Recharge valve closed for canal weed maintenance.
BO	Sunnyside Avenue south Belmont Avenue						Off recharge due to excavation.
BQ	Belmont and Fowler	April 2, 2012	5' BRB	3' BRB	8' 3" BRB	Open	Please increase water delivery.
BT	Marion Avenue south of Nees Avenue						Off recharge for dewatering of Basin "BX" for excavation.
BU	Clovis Avenue south of Clinton Avenue	May 1, 2012	4' BRB	4' BRB	3' 11" BRB	Open	Please terminate recharge delivery until basin drops below authorized elevation. ****Do not recharge above 4' BRB due to habitat control.
BV	Fowler Avenue north of Shields Avenue	May 1, 2012	3' BRB	3' BRB	3' 2" BRB	Closed	Recharge valve closed for canal weed maintenance.
BW	Dakota Avenue east of Clovis Avenue	May 1, 2012	3' BRB	3' BRB	3' 6" BRB	Closed	Recharge valve closed for canal weed maintenance.
BZ	Copper Avenue and Cedar Avenue	May 1, 2012	3' BRB	3' BRB	5' BRB	Open	Please increase water delivery.
CL	Willow Avenue and Sierra Avenue	May 1, 2012	3' BRB	3' BRB	5' BRB	Open	Please increase water delivery.
CM	Cedar Avenue north of Sierra Avenue	May 1, 2012	3' BRB	3' BRB	3' 3" BRB	Open	
CN	Angus Avenue and Fir Avenue	May 1, 2012	9' BRB	9' BRB	10' BRB	Closed	****Do not exceed 9' BRB to prevent water from spilling onto baseball fields.
CO2	Maroa Avenue and Herndon Avenue	March 28, 2012	3' BRB	3' BRB	5' 6" BRB	Open	Please increase water delivery.

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SEMI-MONTHLY RECHARGE BASIN SUMMARY

Inspected June 28 - July 2, 2012

Basin	Location	June 2012					
		Date Authorized	Maximum June Authorized Recharge Level	Maximum July Authorized Recharge Level	Observed Water Elevation	Intertie Position	Comments
CS	Minnewawa Avenue south of North Avenue	March 28, 2012	1' BRB	1' BRB	10' 6" BRB	Closed	Basin elevation reduced due to terminating recharge delivery during recent canal weed maintenance. ****Recharge level remains at 1' BRB due to no storm drain lines are connected to the basin.
CW	Fresno Street and Nees Avenue						Off recharge for construction of pump station.
CX	Ninth Street and Nees Avenue	May 1, 2012	3' BRB	3' BRB	3' 6" BRB	open	
CY	Alluvial Avenue and Cedar Avenue	May 1, 2012	3' BRB	3' BRB	3' 3" BRB	Open	
CZ	Alluvial Avenue and Chestnut Avenue	May 1, 2012	8' BRB	8' BRB	8' 4" BRB	Open	Recharge elevation limited to 8' BRB due to construction of storm drain. ***Do not recharge above 4' BRB due to trees in basin.
DE	Copper Avenue and Cedar Avenue						Cannot recharge due to pipeline easement.
DH	Maroa Avenue and Cromwell Avenue						Cannot recharge due to chemical plume.
EF	Bullard Avenue and Cornelia Avenue	May 1, 2012	3' BRB	3' BRB	7' BRB	Open	Please increase water delivery.
EG	Sandrini Avenue and Spruce Avenue	May 1, 2012	Top of Weir	Top of Weir	1' Below Top of Weir	Open	
EL	Freeway 99 and Barstow Avenue	May 1, 2012	3' BRB	3' BRB	3' 1" BRB	Open	
EM	Barstow and Grantland	April 5, 2012	3' BRB	3' BRB	3' 2" BRB	Open	
1E	Ashlan Avenue and Fordham Avenue	May 1, 2012	3' BRB	3' BRB	3' 9" BRB	Closed	Recharge valve closed for canal weed maintenance.
1G	Temperance Avenue south of Ashlan Avenue	May 1, 2012	3' BRB	3' BRB	3' 2" BRB	Closed	Recharge valve closed for canal weed maintenance.
2D	Ashlan Avenue and Clovis Avenue	May 1, 2012	3' BRB	3' BRB	4' BRB	Closed	Recharge valve closed for canal weed maintenance.
3A	Shaw Avenue and Helm Avenue	May 1, 2012	3' BRB	3' BRB	3' 5" BRB	Closed	
3D	Hoblitt Avenue and Sunnyside Avenue	June 18, 2012	3' BRB	3' BRB	16' 5" BRB	Closed	Recharge valve closed for canal weed maintenance.
3F	Shaw Avenue and Laverne Avenue	May 1, 2012	3' BRB	3' BRB	3' 2" BRB	Closed	Recharge valve closed for canal weed maintenance.
4E	Bullard Avenue and Fowler Avenue	May 1, 2012	3' BRB	3' BRB	3' 10" BRB	Closed	Recharge valve closed for canal weed maintenance.
5B/5C	Sierra Avenue and Minnewawa Avenue	May 1, 2012	18' BRB	18' BRB	16' BRB	Closed	Please keep recharge delivery terminated until basin elevation drops below maximum authorized level. Recharge elevation limited to 18' BRB due to leakage in 168 embankment.
5F	Fowler Avenue and Vartikian Avenue	May 1, 2012	3' BRB	3' BRB	3' 5" BRB	Closed	Recharge valve closed for canal weed maintenance.
6D	Sierra Avenue and Clovis Avenue	May 1, 2012	3' BRB	3' BRB	3' 1" BRB	Closed	Recharge valve closed for canal weed maintenance.
7C	Clovis Avenue and Alluvial Avenue	May 1, 2012	3' BRB	3' BRB	4' 7" BRB	Open	Please increase water delivery.
7D	Alluvial Avenue and Fowler Avenue	May 1, 2012	3' BRB	3' BRB	3' 7" BRB	Open	Recharge valve closed for canal weed maintenance.

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